

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/10481

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> H05B3/68, H05B3/20, H05B3/30, H05B3/10, H01L21/02,  
H01L21/205, H01L21/302

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H05B3/68, H05B3/20, H05B3/30, H05B3/10, H01L21/02,  
H01L21/205, H01L21/302

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Toroku Jitsuyo Shinan Koho	1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y X	JP 2000-243542 A (NHK Spring Co., Ltd.), 08 September, 2000 (08.09.00), Full text; Figs. 1 to 7 & US 6180931 B1	1 2-3
Y	JP 2002-141257 A (Ibiden Co., Ltd.), 17 May, 2002 (17.05.02), Full text; Figs. 1 to 3 & WO 02/99855 A	1

 Further documents are listed in the continuation of Box C. See patent family annex.

- \* Special categories of cited documents:
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- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 10 December, 2003 (10.12.03)	Date of mailing of the international search report 24 December, 2003 (24.12.03)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.